



**METROPOLITAN
TRANSPORTATION
COMMISSION**

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101 Eighth Street
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James P. Spering, Chair
Solano County and Cities

James T. Beall Jr., Vice Chair
Santa Clara County

Keith Axtell
U.S. Department of Housing
and Urban Development

Jane Baker
Cities of San Mateo County

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Cities of Contra Costa County

Mark DeSaulnier
Contra Costa County

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U.S. Department of Transportation

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San Mateo County

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Cities of Alameda County

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City and County of San Francisco

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Association of Bay Area Governments

Jon Rubin
San Francisco Mayor's Appointee

Angelo J. Siracusa
San Francisco Bay Conservation
and Development Commission

Doug Wilson
Marin County and Cities

Kathryn Winter
Napa County and Cities

Sharon Wright
Sonoma County and Cities

Harry Yabuta
State Business, Transportation
and Housing Agency

**BAY BRIDGE DESIGN TASK FORCE
Engineering and Design Advisory Panel
Workshop to Review Alternatives
Monday May 12, 1997 through
Wednesday May 14, 1997
9:00 a.m. - 6:00 p.m.
Waterfront Plaza Hotel, Regatta Room
Jack London Square
Oakland**

Chairperson: Joseph Nicoletti
Vice Chair: John Kriken
Staff Liaison: Steve Heminger

REVISED AGENDA

Monday, May 12, 1997

9:00 a.m.	Welcome, Introductions, and Workshop Format Chair Joe Nicoletti and Vice Chair John Kriken
9:30 a.m.	Background Briefings by MTC, BCDC, and Caltrans Staff
	<i>Cable Stayed Bridges</i>
11:00 a.m.	OPAC Consulting Engineers (Mark Ketchum)
12:00 noon	Lunch
1:00 p.m.	Lin Tung-Yen China, Inc. (TY Lin)
2:00 p.m.	URS Greiner
3:00 p.m.	Parsons Brinckerhoff
4:00 p.m.	Astaneh-Black
5:00 p.m.	Public Comment

Tuesday, May 13, 1997

Lawrence D. Dahms
Executive Director

William F. Hein
Deputy Executive Director

Cable Stayed Bridges (continued)
Caltrans (Single & Double Tower)

Suspension Bridges

10:00 a.m. Gerwick/Sverdrup/DMJM
11:00 a.m. Coman Feher
12:00 noon Lunch

Viaduct and Other Bridges

1:00 p.m. Caltrans (Skyway and Arch)
2:00 p.m. TY Lin, Intl.
3:00 p.m. DCM Studios
4:00 p.m. Garrett Green
5:00 p.m. Zhong-Lin-Hsue
6:00 p.m. Public Comment

Wednesday, May 14, 1997

9:00 a.m. Discussion of Alternatives, Refinements, or
Additional Alternatives
12:00 noon Lunch
1:00 p.m. Panel Discussion (continued)
4:00 p.m. Panel Discussion Summary and Next Steps
5:00 p.m. Public Comment

Public Comment: The public is encouraged to comment on agenda items at committee meetings by completing a request-to-speak card (available from staff) and passing it to the committee secretary or chairperson. Public comment may be limited by any of the procedures set forth in Section 3.09 of MTC's Procedures Manual (Resolution No. 1058, Revised) if, in the chair's judgment, it is necessary to maintain the orderly flow of business.

Record of Meeting: MTC meetings are tape recorded. Copies of recordings are available at nominal charge, or recordings may be listened to at MTC offices by appointment.

Sign Language Interpreter or Reader: If requested three (3) working days in advance, sign language interpreter or reader will be provided; for information on getting written materials in alternate formats call 510/464-7787.



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Tentative Agenda - May 14, 1997

1. Panel comment on presentations
2. Other alternatives to be considered?
3. Alternatives to be initially rejected (see charts A-L)
4. Discussion of alternatives not initially rejected (see attached checklist)
5. Recommendation of alternatives for further analysis
 - seismic performance
 - cost
 - constructibility
 - geological information
 - alignment: north or south
 - visual simulation
6. Public comment
7. Next meeting: Monday, June 2, 1997
1:00 p.m.
Port of Oakland Board Room
530 Water Street, Oakland

Checklist of Choices

General

1. Deck

- Double deck
- Single deck
- Parallel decks

2. Material

- Concrete
- Steel

3. Bridge Type

- Viaduct
- Cable Stayed
- Suspension

Viaduct Bridge

4. Pier Type

- Single column
- Double column
- Arch

5. Span length

- Equal span length
- Varying span length (i.e. closer spacing at shore)

Cable Bridge (Cable Stayed and Suspension)

6. Tower Height

- No taller than YBI (350')
- No taller than west span towers (520')
- No limit

7. Tower Type

- Diamond
- Inverted Y
- Inverted U
- H
- I

8. Number of Towers

- Single tower
- Double towers
- More than two towers
- Paired (side by side) towers

9. Cable Symmetry

- Symmetrical
- Asymmetrical

10. Cable Location

- Center of deck
- Sides of deck

11. Number of Main Cables (Suspension)

- One
- Two
- More than two

12. Terminal Pier at end of Suspended Span

- Yes
- No

**BAY BRIDGE DESIGN TASK FORCE
Engineering and Design Advisory Panel
Workshop to Review Alternatives
Waterfront Plaza Hotel, Oakland
May 12-14, 1997**

Draft Record of Meeting

Panel Attendance

Joseph Nicoletti (Chair), John Kriken (Vice Chair), Karen Alschuler, Christopher Arnold, Bruce Bolt, Roger Borchardt, Robert Brown, Jerry Fox, John Hall, Jeffrey Heller, Ephraim Hirsch, I.M. Idriss, Manabu Ito, T.Y. Lin, Patrick Lucia, Jim McCarty, Roumen Mladjov, Klaus Ostenfeld, Joseph Penzien, Alexander Scordelis, Chuck Seim, Frieder Seible, Jiri Strasky, Peter Taylor, Steve Thompson, Edward Wilson, Thomas Wosser, and Y.C. Yang.

Disclosure of Interests

Chair Nicoletti and Vice Chair Kriken opened the meeting with a statement of purpose and ground rules for conducting the meeting. Following self-introductions, members of the panel publicly indicated by raising their hand if they had participated in the preparation of any of the presentations to be made during the workshop or if they planned to participate on any team which may subsequently submit a proposal to Caltrans to perform design and engineering services on the east span replacement project.

Presentation of Proposals

On May 12 and 13, the panel heard presentations on bridge design proposals from the following firms and individuals:

OPAC Consulting Engineers
Lin Tung-Yen China, Inc.
URS Greiner
Parsons Brinckerhoff
Astaneh-Black
Michael Longo
Caltrans
Gerwick/Sverdrup/DMJM
Coman Feher
TY Lin, Intl.
DCM Studios
Garrett Green
Zhong-Lin-Hsue

Evaluation of Proposals

On May 14, the panel evaluated the proposals it had received and, after discussion, rejected the following bridge design types for engineering, design, visual, and other technical reasons:

- Floating Bridge
- Hybrid Cable Stayed/Arch Bridge
- Free Form Modified Arch Bridge
- Steel Arch (Above Deck) Bridge
- Segmental Concrete Arch Bridge
- Single Tower (Tetrapod) Suspension Bridge
- Repeating Spans of Cable Stayed Bridge
- Repeating Spans of Self-Anchored Suspension Bridge
- Double Tower Cable Stayed Bridge

After further deliberation, the panel accepted the following bridge design types for additional study:

- Single Tower* Cable Stayed Bridge
- Single Tower* Curved Cable Stayed Bridge
- Single Tower* Self-Anchored Suspension Bridge
- Viaduct (Skyway)

*Single Tower as it appears in longitudinal elevation

The panel requested that Caltrans provide the following additional information regarding the accepted bridge design types at the panel's June 2 or June 16 meetings:

- seismic performance
- cost
- constructibility
- geological information
- alignment: north or south
- navigation: vertical and horizontal clearance
- visual simulation

The panel also reached consensus on the following additional recommendations regarding attributes of the accepted bridge design types:

1. The east span bridge should not be double decked. It should have two parallel separated decks on the causeway section and either parallel separated decks or a single deck on the suspended span. (Caltrans will consider two options for preliminary estimates -- a widely separated structure and a closely separated structure with a beam linking the two columns.)
2. The causeway section should have long, equal span lengths, although closer span lengths might be necessary just adjacent to the Oakland shore.
3. The causeway section should be supported by single column piers with particular attention paid to the design of the pier as it enters the water, including the possibility of submerging the pile cap below water.
4. Any cable or suspension tower included on the east span should be no taller than the suspension towers on the existing west span.
5. The "diamond" shape for the tower base should not be employed in any cable or suspension tower on the east span.
6. The east span bridge should have a dedicated bicycle/pedestrian facility.

Public Comment

The following members of the public made comments during public comment periods of the workshop:

May 12	John Bliss, Bill Smith, Michael Longo, Dan Breuner
May 13	Y.S. Chang
May 14	Abolhassan Astaneh-Asi, Martin Iorns

BAY BRIDGE DESIGN TASK FORCE
Engineering and Design Advisory Panel
Workshop to Review Alternatives
Waterfront Plaza Hotel, Oakland
May 12-14, 1997

Approved Record of Meeting

Panel Attendance

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- visual simulation

**BAY BRIDGE DESIGN TASK FORCE
Engineering and Design Advisory Panel**

**Workshop to Review Alternatives
Preliminary Schedule**

Monday, May 12, 1997

- 9:00 a.m. Introductions of Invited Experts
9:30 a.m. Background Briefings by MTC, BCDC, and
 Caltrans Staff
- 12:00 noon Lunch
- 1:00 p.m. Presentation of Alternatives with Invited Panel
 Discussion (1 1/2 hour each)
- 4:30 p.m. Advisory Panel Comments
- 5:00 p.m. Public Comment

Tuesday, May 13, 1997

- 9:00 a.m. Presentation of Alternatives (continued)
- 12:00 noon Lunch
- 1:00 p.m. Presentation of Alternatives or Invited Experts
 Discussion of Alternatives, Refinements or
 Additional Alternatives
- 5:00 p.m. Public Comment

Wednesday, May 14, 1997

- 9:00 a.m. Panel Discussion (continued)
- 12:00 noon Lunch
- 1:00 p.m. Public Comment
- 2:00 p.m. Panel Discussion Summary and next Steps
- 5:00 p.m. Public Comment (continuation if necessary)

Bay Bridge Design Task Force
Engineering & Design Advisory Panel
Bridge Design Workshop
May 14, 1997 - 9:00 a.m.

Public Sign-in Sheet

NAME	REPRESENTING	ADDRESS
1. W. David Liu	Impson & Assoc. Inc.	Sacramento
2. J. Penzien	Caltrans / SAB	
3. ADE AKINSANYA	Caltrans	Sacramento
MOE Amin	CALTRANS - CPMS	1801 30th St Sacto 95822
4. Chns. Amato	BCDC	Palo Alto
5. Erik Zechlin	Caltrans Structures	Sacramento
6. Randy Anderson	Caltrans	Sacramento, CA
7. MARTIN LORNS	CONCRETE LAMINATES INC.	W. SACRAMENTO
8. Judith Rosso	PB	
9. DARRELL PIEPER	CALIF CEMENT PROMOTION COUNCIL	P.O. BOX 6687 MORAGA, CA 94570
10. Roger Borchardt	USGS	New Park, CA

Bay Bridge Design Task Force
Engineering & Design Advisory Panel
Bridge Design Workshop
May 14, 1997 - 9:00 a.m.

Public Sign-in Sheet

NAME	REPRESENTING	ADDRESS
1. <u>PATRICK FLYNN</u>	<u>HDR Engr.</u>	<u>510-986-1880</u>
2. _____	_____	_____
3. _____	_____	_____
4. _____	_____	_____
5. _____	_____	_____
6. _____	_____	_____
7. _____	_____	_____
8. _____	_____	_____
9. _____	_____	_____
10. _____	_____	_____

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NAME	REPRESENTING	ADDRESS
1. Neil Harris	LoBono, Armstrong & Assoc	601 University #274 Sacramento 95825
2. Randy Anderson	Caltrans	Sacramento, CA
3. Rick Feher David Coman	Coman Feher Coman Feher	Sacramento, 95816 Sacramento
4. Hadieh Elias	ESE Consulting Engineers	Oakland, CA
5. Thomas Lee	Thomas Lee & Assoc. Inc.	San Francisco, CA
6. Gus Yan	China	
7. DARRELL PIEPER	CALIF CEMENT PROMOTION	P.O. Box 6637 MORAGA, CA 94553
8. ROUPEN DONIKIAN	ICF KAISER ENGINEERS	1800 HARRISON ST OAKLAND, CA 94612
9. MARTIN IORNS	CONCRETE LAMINATES INC.	1512 LAKEWOOD DR W. SACRAMENTO, CA 95691
10. Hue, Chentong	American Consultant	275 28th St. Ste 432 Oakland, CA 94611-6664

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NAME	REPRESENTING	ADDRESS
1. JIDI STRASKY	PANEL JIDI STRASKY	Hill Valley
2. Chm. Am	BLDC	Pale Alto
3. Tom Cooper	PARSONS BRINCKERHOFF	SACRAMENTO
4. DONALD MACDONALD	TYLIN INTER.	S.F.
5. RAFAEL MANZANAREZ	TYLIN INTER.	EST
6. GENE BOUGDANOS	T.Y. LIN INTERNATIONAL	S.F.
7. Gerald Bangs	VisCom	10301 Placer Lane Ste 100 Sacramento, CA
8. Hassan Astanek	UC - Berkeley	781 DAVIS HALL UC Berkeley CA 94720
9.		
10.		

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2. Joseph Benzien	Caltrans / SAB	
3. Peter Buchley	Athalye Consulting	5827 Marshall St Oakland
4. Erik Zechlin	Caltrans structures	Sacramento
5. JAY MIRZA	CALTRANS DOS	SACRAMENTO
6. Janise Sundstrom	Caltrans - Structures	Sacramento
7. Tony Powers	HDR Engineering	271 Turn Pike Dr Sacramento, Folsom CA 95630
8. Vong Toan	CALTRANS - Sacramento	→
9. Wai Koo	W. KOO & ASSOC.	Orange
10. Hazem Mobarek	W. KOO & ASSOC.	Orange

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May 12, 1997 - 9:00 a.m.

13

Public Sign-in Sheet

NAME

REPRESENTING

ADDRESS

- | | | |
|------------------|----------------------|----------------------|
| 1. Kuang Lim | Sverdrup Civil, Inc. | 1340 Treat Blvd |
| Darlene Gee | - | # 208, Walnut |
| 2. Doug Peters | - | Creek, CA 94596 |
| Bill Vandenberg | - | - |
| 3. Gerard F. Fox | CALTRANS / PRP | - |
| Wei Koo | WIGA | 600 City Parkway, Wm |
| 4. MOE Amini | CALTRANS | Orange CA 92668 |
| | | 1801 35th St Sct |
| 5. | | |
| 6. | | |
| 7. | | |
| 8. | | |
| 9. | | |
| 10. | | |

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1. <u>Paul Silverman</u>	<u>NCG</u>	<u>2322 Hayes St San Francisco CA 94109</u>
2. <u>Mark A. Ketchum</u>	<u>OPAC</u>	<u>315 Bay, ^{San Francisco} CA 94133</u>
3. <u>THOMAS LOVETT</u>	<u>URS GREINER</u>	<u>Tampa, FLORIDA</u>
4. <u>Reid Buell</u>	<u>Caltrans</u>	<u>5900 Folsom Blvd. Sacramento, CA</u>
5. <u>JAMES CHAI</u>	<u>Caltrans</u>	<u>5900 Folsom Blvd.</u>
6. <u>Ashok Athalye</u>	<u>ATHALYE CONSULT ENGRS</u>	<u>23461 S Pointe Dr. Coyote Hill</u>
7. <u>JOHN KRIKEL</u>	<u>SOM/BLDL</u>	<u>1 FRONT, SF</u>
8. <u>CHUCK SEIM</u>	<u>CALTRANS</u>	<u>825 BATTERY ST 2FL SAN FRANCISCO CA 94111</u>
9. <u>Wallen Hawkes</u>	<u>URS Greiner</u>	<u>100 California ST. San Francisco</u>
10. <u>Hassan Astaneh</u>	<u>Univ. of California</u>	<u>781 DAVIS HALL Berkeley CA 94720 1710</u>

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2. George Fotinos	EDAP	
3. Chris Arnold	BCDC/ECRB	
4. FRIEDER SEIBLE A	UCSD / EDAP	
5. Abbas Abghari	CT / OSF	
6. Mahmoud Khojasteh	CT / OSF	
7. Gerard F. Fox	CT / PRP	
8. Joseph Penzien	Caltrans / SAB	
9. Mirck OLMER	TYLI	
10. Bedros Agopovich	DMJM	

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2. Vong Toan Karen Alschuler	CALTRANS Panel	Sacramento
3. Bruce Bolt	Caltrans Panel	Berkeley
4. DAVID MORRIS	Don Stottis	MILC NY
5. Michael Whiteside	Caltrans	Sacramento
6. Erik Zechlin	Caltrans	Sacramento
7. T.Y. Lin	TPC	
8. ALEX SCORDELIS		
9. W. David Liu	Imbren & Assoc. Inc.	Sacramento
10. J. STRASKY		Mill Valley

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1. Roger Borchardt	U.S. Geological Survey	
2. Tom Mosser	BCDC - ECRB	
3. E.O. Wilson		
4. Jim Roberts	Caltrans	Sacramento
5. Patrick Buckley	Athalye Consulting	5827 Marshall St OAKLAND, CA 94608
6. Dick LeBeau	Imboen & Assoc	9912 Business Park Dr 80010
7. CRAIG DRAKE	J. Muller International	22955 Gateway Oaks Dr #140 Sacramento, CA 95833
8. Roumen Mladov	MTC / SEABONC	71 Stevenson St. Ft 2100
9. Hsue, Chen Tung	American Consultant SKI	275 28th St #432 Oakland, CA 94611
10. Don Brenner	West Oakland Commerce Assoc.	2201 Poplar St OAKLAND 94607

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NAME	REPRESENTING	ADDRESS
1. Lalliana Mualchin 1	Caltrans Office of EQ. Engrs.	1801 30 th St.
2. John Bliss	American Society of Civil Engineers	5854 St. Paul Cr Oakland, CA 94618
3. Jason Maxwell	ANATECA Corp.	Walnut Creek, CA
4. Ken Jung	PB	
5. Judith Foxo	PB	
6. Chris Clark	DeLeuw, Cather	120 Howard St. SF
7. Neil Harris	URS Greiner/Imbren/LaBuono	601 University #274 Sacramento 95825
8. Mahmoud Fustak MOE Amini	Caltrans CCMB CALTRANS	1801 30th St Sac. CA 95816-9801
9. MICHAEL O'SULLIVAN	FAYE BERNSTEIN & ASSOC	450 SANSOME ST SAN FRANCISCO, CA 94111
10. ROBERT MEUSER	Self	4200 Gregory St Oakland 94619

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1. <u>MAN CHUNG TANG</u>	<u>TY LIN INTERNATIONAL</u>	<u>SF.</u>
2. <u>JUAN MORILLO</u>	<u>PARSONS BRINCKERHOFF</u>	<u>SF</u>
3. <u>RAY MCCABE</u>	<u>HNTB</u>	<u>NJ.</u>
4. <u>DAVID WILLIAMS</u>	<u>DIGITAL STRUCTURES</u>	<u>Berkeley, CA.</u>
5. <u>Randy Anderson</u>	<u>Caltrans - ESC</u>	<u>Sacramento, CA</u>
6. <u>WILLIAM HADAYA</u>	<u>PARSONS BRINCKERHOFF</u>	<u>SF</u>
7. DAVID WILLIAMS	DIGITAL STRUCTURES INC.	SF
8. <u>TOM COOPER</u>	<u>PARSONS BRINCKERHOFF</u>	<u>Sacramento, CA</u>
9. <u>+ HAZEM MORAREK</u>	<u>W. KOD & ASSOC.</u>	<u>Orange, CA</u>
10. <u>William D. Smith</u>	<u>Parsons Brinckerhoff</u>	<u>SF</u>

Bay Bridge Design Task Force
Engineering & Design Advisory Panel
Bridge Design Workshop
May 12, 1997 - 9:00 a.m.

Public Sign-in Sheet

NAME	REPRESENTING	ADDRESS
1. <u>Tim Dougherty</u>	<u>Parsons Brinckerhoff</u>	<u>303 second SF</u>
2. <u>CRIS SUBRIZI</u>	<u>PARSONS BRINCKERHOFF</u>	<u>200 2ND STREET</u>
3. <u>R. Gary Black</u> <u>(presenter)</u>	<u>University of Calif, Berk</u>	<u>UC Berkeley, Dept</u> <u>of Architecture Rm 232</u>
4. <u>Michael C Longo</u>	<u>Me</u>	<u>1006-B Seabright</u> <u>Santa Cruz CA 95061</u>
5. <u>Hadieh Elias</u>	<u>ESE Consulting Engineers</u>	<u>1440 Broadway St.</u> <u>Suite 802, Oakland</u> <u>CA 94612</u>
6. <u>Bill Smith</u>	<u>Virtual Agile</u>	<u>Commodore Dr. #306</u> <u>Manufacturing</u> <u>Emeryville, CA</u> <u>94608</u>
7. <u>PERRY A. HAYLAND, FAIA</u>	<u>AIA - EAST BAY</u>	<u>17 EMERALD AVE</u> <u>OAKLAND, CA 94606</u>
8. <u>Paul E. Bach</u>	<u>GERWICK</u>	<u>601 MONTGOMERY ST</u> <u>SF 94111</u>
9. <u>Thomas Dahlgren</u>	<u> </u>	<u> </u>
10.		

PRESS
Bay Bridge Design Task Force
Engineering & Design Advisory Panel
Bridge Design Workshop
May 14, 1997 - 9:00 a.m.

NAME

REPRESENTING

1. Dave Rosenbaum

ENR

BT

2. Robert Oakes

Contra Costa Times

3. Gail Nolte

SF Chronicle

4. Dasha Slater

Express

5. Jerry Wilcox

KCBS

6.

7.

8.

9.

10.

PRESS
Bay Bridge Design Task Force
Engineering & Design Advisory Panel
Bridge Design Workshop
May 13, 1997 - 9:00 a.m.

NAME

REPRESENTING

1. Carl Nolte	SF Chronicle
2. Gu Yan	China Press
3. Dasha Slater	Express
4.	
5.	
6.	
7.	
8.	
9.	
10.	

PRESS
Bay Bridge Design Task Force
Engineering & Design Advisory Panel
Bridge Design Workshop
May 12, 1997 - 9:00 a.m.

NAME

REPRESENTING

1. David Rosenbaum

ENR

2. Roman Abramson

OAK TRIB

3. Carl Nolte

SAN FRANCISCO CHRONICLE

4. Kevin Guillory

KQED-FM

5. GREG Lyon

KRON-TV

STAN DRURY

6. JOYCE CHEN

SING 780 DAILY

7. Bob Melrose

KCBS Radio

8. Darwka Slater

Express

9.

10.